

February 13, 1991

Docket No. 50-54

Mr. James J. McGovern, President
Cintichem, Inc.
P. O. Box 816
Tuxedo, New York 10987

Dear Mr. McGovern:

SUBJECT: REQUEST FOR ADDITIONAL INFORMATION REGARDING
DECOMMISSIONING PLAN - CINTICHEM, INC.

As a result of our review of your January 11, 1991 response to our request for additional information, we find that additional and/or clarifying information is required. Enclosed is our request for such information. Please provide responses to this request for additional information.

This requirement affects nine or fewer respondents and, therefore, is not subject to Office of Management and Budget review under Public Law 96-511.

Sincerely,

[Original signed by]

Theodore S. Michaels, Senior Project Manager
Non-Power Reactors, Decommissioning and
Environmental Project Directorate
Division of Advanced Reactors
and Special Projects
Office of Nuclear Reactor Regulation

Enclosure:
As stated

cc w/enclosure:
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UNITED STATES
NUCLEAR REGULATORY COMMISSION
WASHINGTON, D. C. 20555

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Sincerely,

A handwritten signature in cursive script that reads "Theodore S. Michaels".

Theodore S. Michaels, Senior Project Manager
Non-Power Reactors, Decommissioning and
Environmental Project Directorate
Division of Advanced Reactors
and Special Projects
Office of Nuclear Reactor Regulation

Enclosure:
As stated

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Cintichem, Inc.

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cc:

Dr. Paul J. Merges, Director
Bureau of Radiation, DHSR
NYS Department of Environmental
Conservation
50 Wolf Road
Albany, New York 12233-7255

New York State Department of Labor
ATTN: Dr. Francis J. Bradley, Principal
Radiophysicist, Radiological Health Unit
One Main Street, Room 813
Brooklyn, New York 11201

Director, Technical Development Programs
State of New York Energy Office
Agency Building 2
Empire State Plaza
Albany, New York 12223

Supervisor Annette Dorozynski
Town of Tuxedo
P. O. Box 725
Tuxedo, New York 10987

Berle, Koss and Case
145 Rockefeller Plaza
New York, New York 10111
ATTN: Ava Gartner

Comments on Cintichem Response to NRC RAI

1. It appears that Table 1A omitted the activity associated with areas 26-2 through 26-4 of the reactor building. Provide that information.
2. Table 1A did not include information on the volume and the curie content of the waste water evaporator system as requested in our December 21, 1990 request for additional information. This data should be provided.
3. In the response to Question 2 of the RAI, the locations of structures with contaminated surfaces were depicted in Figure 2a. Our review of this Figure found that the following areas had contaminated structures which were excluded from Tables 1.1, 1.2a, and 1.2b of the October submittal and Table 1.2(a) from the January 11, 1991 response to the RAI:
 - (1) the storage and makeup solution rooms,
 - (8) the T-1 room,
 - (11) the decan room,
 - (24) quality control laboratory, elevation 781' 7.5",
 - (29) quality control laboratory, elevation 808' 3",
 - (31) name of area unknown,
 - (34) holdup tank room, elevation 771' 7.5",
 - (48) radiochemical laboratory,
 - (45) evaporator room,
 - (46) name of area unknown, and
 - (48) primary air filter room.

Provide the volume of waste associated with these structures and the activity of each of these structures as presented in Table 1.2(a).

4. What values were assumed for the decontamination factors (DF) for the various radionuclides associated with the evaporator and the ion exchange bed?
5. What type of solidification agent and process will be utilized to solidify evaporator concentrates?
6. In the response to RAI Question 12, it is stated that local air monitoring will be performed. What type of monitoring will be performed and where?

7. Why was Pasquill Stability Class A used for the calculation of the dose to an individual at the site boundary and Class F was utilized for the individual at the residential development? It would seem that both calculations should be performed using Stability Class F. In addition, in ratioing the X/Q values, the ratio of $(H/\text{Sigma } Z)^2$ did not appear to be factored into the calculation and it would appear that it should have been. Provide the appropriate calculations or provide a basis for the assumptions utilized in your calculations.
8. In conformance with Part 20, the concentration of activity released to the Indian Kill Reservoir as a result of flooding should not include dilution associated with the reservoir but rather the concentration that enters the reservoir. Why was a different approach taken?
9. Was the work associated with the scarification process assumed to be filtered by two HEPA filters in series, each with a filter efficiency of 0.99 such that 0.0001 (i.e., 0.01×0.01) of the initial particulates would be released as a result of the scarification process? If so, this is contrary to the staff's standard assumption which only allows credit for one HEPA filter i. e., a 0.99 removal efficiency (0.01 penetration). The removal efficiency of airborne effluents should not overestimated.